

ABSTRACT

A microphone and method for dampening the frequency response of the microphone by disposing a dampening frame in a rear volume of the microphone. The microphone generally includes a housing, a diaphragm, a damping frame, and a backplate. The diaphragm rests on embossments in the housing, and a damping frame including a damping slit cut into an inner edge of the damping frame is positioned against the diaphragm. The backplate is positioned adjacent the damping frame to define an aperture which allows air to escape from the area between the backplate and the diaphragm into the rear volume of the microphone, thus dampening the frequency response of the microphone. The method includes the steps of aligning a sheet of diaphragms with a sheet of damping frames, curing these two sheets to form a carrier sheet having a plurality of subassemblies, singulating each subassembly, installing a backplate onto each subassembly to form a cartridge, and placing the cartridge into a microphone housing.

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